PME RESEARCH LABORATORY, FEBRUARY 1980

PROJECT TITLE : PRODUCT RESEARCH

PERIOD COVERED : JANUARY 28th - FEBRUARY 22nd

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SURFACE CHEMISTRY OF ADSORBENTS

New commercial adsorbents

- Some new adsorbents were characterized. One of them - charcoal from KEYSER & MACKAY (Sutcliff) - has interesting properties (1) :

Material code	Surface area (m^2/g)	Total pore Vol. (cm^3/g)	Mesoporous Vol. (cm^3/g)	Microporous Vol. (cm^3/g)
CA-196 (207 A)	940	0.38	0.08	0.30

- We were contacted by STEARKLE & NAGLER (WESTVACO) to test some new granular activated carbon.

- Asssitance was given to project Salamander II : adsorbent traps for selective filtration containing charcoal code CA-56 and Pittsburg CPG 14x40 impregnated with Salcomine (15 %) (2), were prepared.

ANALYSIS OF CO AND NO IN MAINSTREAM AND IN SIDESTREAM SMOKE

Set-up and testing of the instrument combination for determining CO and NO simultaneously in mainstream and in sidestream smoke of cigarettes was completed (Fig. 1).

Cigarettes are smoked in a pear-shaped glass smoke chamber (volume 1570 cm^3) at an air flow rate of 1.5/min. (3).

NO is determined by using the same arrangements of instruments reported recently (Fig. 1) (3).

The vapor phase of mainstream and sidestream smoke is collected in teflon gas bags and CO measured by two CO meters (Ultramat-Borgwaldt/mainstream smoke and Leybold-Heraeus/sidestream smoke).

REFERENCES

(1) P. Ghiste, Notebook 791209, p. 1 (1980).
(2) P. Ghiste, PME Research Laboratory, Monthly Progress Report, August 1979.
(3) P. Ghiste, PME Research Laboratory, Monthly Progress Report, December 1979.

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FIGURE 1